

IN THE SPECIFICATION

Replace the paragraph beginning on page 1, lines 11-19, with:

Integrated circuits such as microprocessors, digital signal processors, microcontrollers, memory devices, and the like typically contain millions of Insulated Gate Field Effect Transistors (IGFETs). Because of the desire to ~~the~~ increase the speed of the transistors or devices making up the integrated circuits, integrated circuit manufacturers have decreased the device sizes. Although the smaller devices are capable of operating at increased speeds, secondary performance factors such as decreased source-drain breakdown voltage, increased junction capacitance, and instability of the threshold voltage negatively affect transistor performance. Collectively, these adverse performance effects are referred to as short channel effects.